

priority #4

Access DB# 14236

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sin J. Lee Examiner #: 76060 Date: 1-11-05  
 Art Unit: 1752 Phone Number 302-1333 Serial Number: 10/671,732  
 Mail Box and Bldg/Room Location: 9060 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

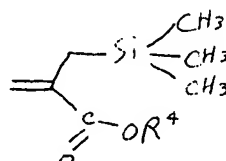
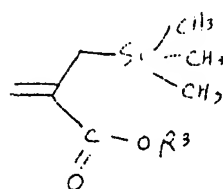
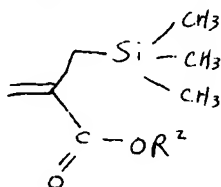
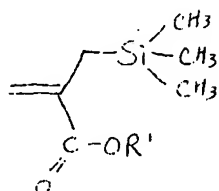
Title of Invention: Plz. See B:6

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Plz. search for a polymer that is derived from any one of the following monomers



In case it helps, these monomers are made by the method described in cl. #5

R<sub>1</sub> = H, halogen, or monovalent organic gp.

R<sub>2</sub> = acid labile gp.

R<sub>3</sub> = monovalent organic gp. of 2-30 carbon atoms containing an oxygen function.

R<sub>4</sub> = monovalent organic gp. of 3-30 carbon atoms containing at least one silicon atom.

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>ES</u>	NA Sequence (#) _____	STN <u>\$ 368.00</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>(1)</u>	Quest/Orell _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>1-13-05</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>5</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>70</u>	Other _____	Other (specify) _____

=> file reg  
FILE 'REGISTRY'  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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      FILE 'LREGISTRY'
L1          STR

      FILE 'REGISTRY'
L2          0 S L1
L3          STR L1
L4          19 S L3
L5          331 S L3 FUL
           SAV L5 LEE732/A

      FILE 'LREGISTRY'
L6          STR L3

      FILE 'REGISTRY'
L7          19 S L6 SSS SAM SUB=L5
L8          329 S L6 SSS FUL SUB=L5
           SAV L8 LEE732A/A
L9          2 S L5 NOT L8
L10         5 S L8 AND PMS/CI

      FILE 'ZCAPLUS'
L11         2 S L9
L12         3 S L10

      FILE 'CAOLD'
L13         0 S L9
L14         0 S L10

      FILE 'REGISTRY'
L15         STR L6
L16         0 S L15 SSS SAM SUB=L5
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           SAV L17 LEE732B/A

      FILE 'CAOLD'
L18         0 S L17
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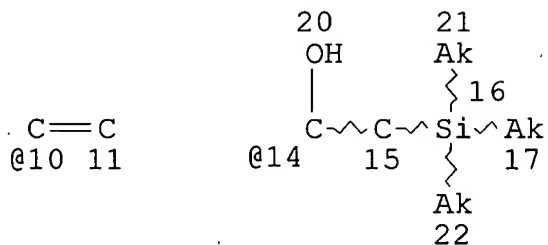
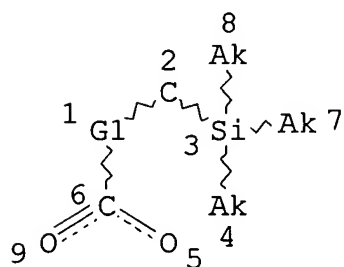
FILE 'ZCAPLUS'

L19 33 S L17  
 L20 4 S L11 OR L12  
 L21 29 S L19 NOT L20

FILE 'REGISTRY'

=&gt; d 117 que stat

L3 STR



VAR G1=10/14

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 4  
 CONNECT IS E1 RC AT 7  
 CONNECT IS E1 RC AT 8  
 CONNECT IS E1 RC AT 17  
 CONNECT IS E1 RC AT 21  
 CONNECT IS E1 RC AT 22

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 4  
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DEFAULT ECLEVEL IS LIMITED

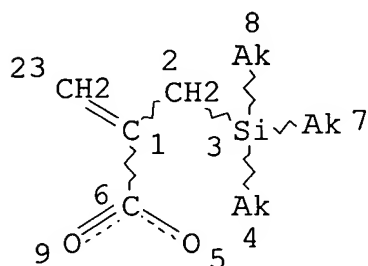
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L5 331 SEA FILE=REGISTRY SSS FUL L3

L15 STR



NODE ATTRIBUTES:

CONNECT IS E1 RC AT 4

CONNECT IS E1 RC AT 7

CONNECT IS E1 RC AT 8

DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 4

GGCAT IS SAT AT 7

GGCAT IS SAT AT 8

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L17 16 SEA FILE=REGISTRY SUB=L5 SSS FUL L15

100.0% PROCESSED 329 ITERATIONS

16 ANSWERS

SEARCH TIME: 00.00.01

=> file zcaplus

FILE 'ZCAPLUS'

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=> d 120 1-4 all hitstr

L20 ANSWER 1 OF 4 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2004:293281 ZCAPLUS  
 DN 140:329540  
 ED Entered STN: 09 Apr 2004  
 TI Polymerizable silicon-containing compound for polymer resist  
 composition and patterning process  
 IN Kinsho, Takeshi; Watanabe, Takeru; Hasegawa, Koji  
 PA Japan  
 SO U.S. Pat. Appl. Publ., 22 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM G03C001-73  
 ICS G03F007-039; G03F007-20; G03F007-30; G03F007-38; G03F007-36  
 NCL 430270100; 430905000; 430907000; 430910000; 430326000; 430914000;  
 430327000; 430328000; 430331000; 430313000  
 CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and  
 Other Reprographic Processes)  
 FAN.CNT 1

*applicant's*

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004067436	A1	20040408	US 2003- <u>671732</u>	200309 29
JP 2004115762	A2	20040415	JP 2002-285171	200209 30
PRAI JP 2002-285171	A	20020930		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004067436	ICM	G03C001-73
	ICS	G03F007-039; G03F007-20; G03F007-30; G03F007-38; G03F007-36
	NCL	430270100; 430905000; 430907000; 430910000; 430326000; 430914000; 430327000; 430328000; 430331000; 430313000
US 2004067436	ECLA	G03F007/004D; G03F007/075M2; G03F007/40
JP 2004115762	FTERM	2H025/AA02; 2H025/AA09; 2H025/AB16; 2H025/AC08; 2H025/AD03; 2H025/BC40; 2H025/BE00; 2H025/BE10; 2H025/BG00; 2H025/CB33; 2H025/CC20; 2H025/FA01; 2H025/FA12; 2H025/FA41; 4H049/VN01; 4H049/VP01; 4H049/VP05; 4H049/VQ29; 4H049/VQ57; 4H049/VQ58; 4H049/VQ76; 4H049/VQ77; 4H049/VR23; 4H049/VR24; 4H049/VS18; 4H049/VU20; 4H049/VU24; 4H049/VW02; 4H049/VW33; 4J100/AB02Q; 4J100/AB03Q; 4J100/AJ01Q; 4J100/AJ02Q; 4J100/AJ08Q;

4J100/AK32Q; 4J100/AM02Q; 4J100/AM43Q;  
4J100/AM45Q; 4J100/AP16P; 4J100/AR10Q;  
4J100/BA15P; 4J100/BA72P; 4J100/BA80P;  
4J100/BA81P; 4J100/BB17Q; 4J100/BC04P;  
4J100/BC53P; 4J100/CA04; 4J100/CA05; 4J100/DA01;  
4J100/DA04; 4J100/JA38

OS MARPAT 140:329540

AB Polymerizable silicon-contg. compds. of formula:

(CH<sub>3</sub>)<sub>3</sub>SiCH<sub>2</sub>C(=CH<sub>2</sub>)C(=O)OR<sub>1</sub> (R<sub>1</sub> = hydrogen, halogen or monovalent org. group) are polymd. into polymers. A resist compn. comprising the polymer as a base resin is sensitive to high-energy radiation, has excellent sensitivity and resoln. at a wavelength of less than 300 nm, and high resistance to oxygen plasma etching, and thus lends itself to micropatterning for the fabrication of VLSIs.

ST polymerizable silicon compd manufg polymer resist compn patterning process

IT Integrated circuits

Resists

(polymerizable silicon-contg. compd. for polymer resist compn. and patterning process)

IT 74976-84-4P 75366-35-7P 75366-36-8P **100548-24-1P**  
**677775-91-6P** 677775-92-7P 677775-93-8P 677775-94-9P  
677775-96-1P

(polymerizable silicon-contg. compd. for polymer resist compn. and patterning process)

IT **677775-97-2P 677775-98-3P 677775-99-4P**  
**677776-00-0P**

(polymerizable silicon-contg. compd. for polymer resist compn. and patterning process)

IT 95-92-1, Diethyl oxalate 1462-96-0, 1-Ethylcyclopentanol  
2344-80-1, Chloromethyltrimethylsilane 5061-21-2,  
.alpha.-Bromo-.gamma.-butyrolactone 90913-72-7,  
2-[Tris(trimethylsilyl)silyl]ethanol 677775-90-5 677775-95-0  
(polymerizable silicon-contg. compd. for polymer resist compn. and patterning process)

IT 80421-81-4P

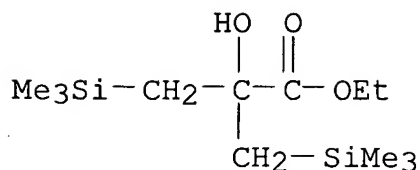
(polymerizable silicon-contg. compd. for polymer resist compn. and patterning process)

IT **100548-24-1P 677775-91-6P**

(polymerizable silicon-contg. compd. for polymer resist compn. and patterning process)

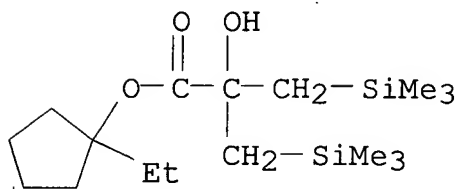
RN 100548-24-1 ZCAPLUS

CN Propanoic acid, 2-hydroxy-3-(trimethylsilyl)-2-  
[(trimethylsilyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 677775-91-6 ZCAPLUS

CN Propanoic acid, 2-hydroxy-3-(trimethylsilyl)-2-  
[(trimethylsilyl)methyl]-, 1-ethylcyclopentyl ester (9CI) (CA INDEX  
NAME)



IT 677775-97-2P 677775-98-3P 677775-99-4P  
677776-00-0P

(polymerizable silicon-contg. compd. for polymer resist compn.  
and patterning process)

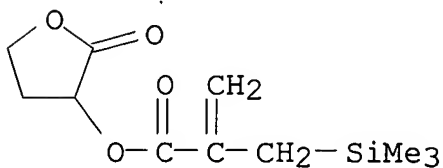
RN 677775-97-2 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, 1-ethylcyclopentyl  
ester, polymer with tetrahydro-2-oxo-3-furanyl 2-  
[(trimethylsilyl)methyl]-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 677775-93-8

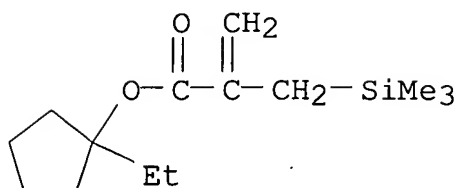
CMF C11 H18 O4 Si



CM 2

CRN 677775-92-7

CMF C14 H26 O2 Si



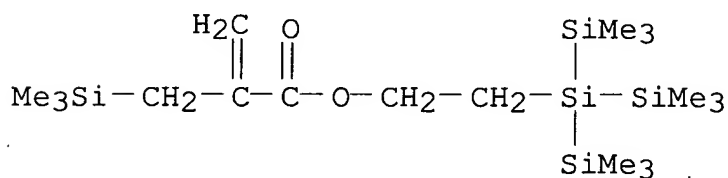
RN 677775-98-3 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, 1-ethylcyclopentyl ester, polymer with tetrahydro-2-oxo-3-furanyl 2-[(trimethylsilyl)methyl]-2-propenoate and 2-[2,2,2-trimethyl-1,1-bis(trimethylsilyl)disilanyl]ethyl 2-[(trimethylsilyl)methyl]-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 677775-96-1

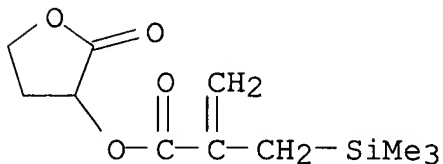
CMF C18 H44 O2 Si5



CM 2

CRN 677775-93-8

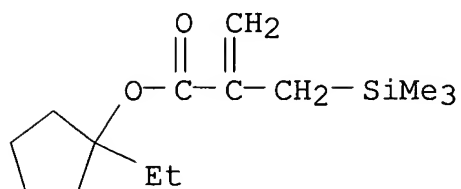
CMF C11 H18 O4 Si



CM 3



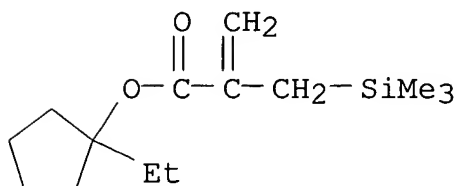
CRN 677775-92-7  
CMF C14 H26 O2 Si



RN 677775-99-4 ZCAPLUS  
CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, 1-ethylcyclopentyl ester, polymer with ethenylheptamethylcyclotetrasiloxane and 2,5-furandione (9CI) (CA INDEX NAME)

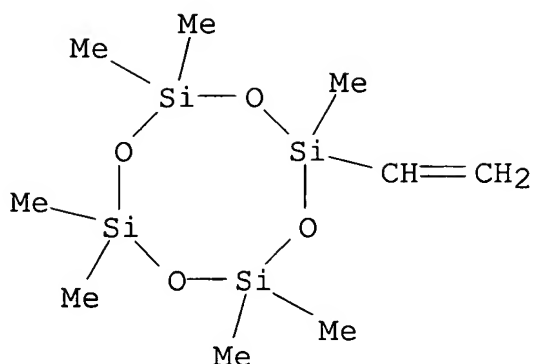
CM 1

CRN 677775-92-7  
CMF C14 H26 O2 Si



CM 2

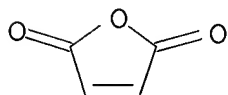
CRN 3763-39-1  
CMF C9 H24 O4 Si4



CM 3

CRN 108-31-6

CMF C4 H2 O3



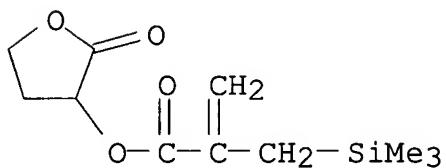
RN 677776-00-0 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, 1,1-dimethylethyl ester, polymer with tetrahydro-2-oxo-3-furanyl 2-[(trimethylsilyl)methyl]-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 677775-93-8

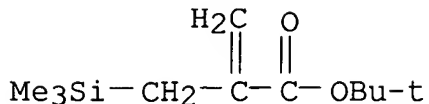
CMF C11 H18 O4 Si



CM 2

CRN 75366-36-8

CMF C11 H22 O2 Si



L20 ANSWER 2 OF 4 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1998:38909 ZCAPLUS  
 DN 128:61908  
 ED Entered STN: 23 Jan 1998  
 TI Vinyl compounds in radical polymerization for polymer molecular weight control and end-group functionality  
 IN Meijs, Gordon Francis; Rizzardo, Ezio; Thang, San Hoa  
 PA Commonwealth Scientific and Industrial Research Organisation, Australia  
 SO Pat. Specif. (Aust.), 57 pp.  
 CODEN: ALXXAP  
 DT Patent  
 LA English  
 IC ICM C07C321-20  
 ICS C07C323-52; C07C323-12; C07C323-25; C07C317-10; C07C317-44; C07C323-60; C07C323-54; C07F007-18; C07F009-11; C07F007-08; C07F007-22  
 CC 35-2 (Chemistry of Synthetic High Polymers)  
 Section cross-reference(s): 24

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI AU 682408 = 5874511	B2	19971002	AU 1994-79029	19941125
AU 9479029	A1	19950223		
PRAI AU 1994-79029		19941125		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
AU 682408	ICM	C07C321-20
	ICS	C07C323-52; C07C323-12; C07C323-25; C07C317-10; C07C317-44; C07C323-60; C07C323-54; C07F007-18; C07F009-11; C07F007-08; C07F007-22

OS MARPAT 128:61908

AB Compds. CH<sub>2</sub>:CRCH<sub>2</sub>X(R')<sub>n</sub>, where R is H or a group capable of activating the vinyl carbon towards free radical addn. and selected from optionally substituted Ph or other arom. groups, or

alkoxycarbonyl or aryloxycarbonyl, carboxy, acyloxy, carbamoyl, cyano groups or halogen; R' is an optionally substituted alkyl, alkenyl, alkynyl, or satd., unsatd. or arom. carbocyclic or heterocyclic ring; X is a S, Se, P, Br, Sn, and/or O-contg. group selected from phosphonate, sulfoxide, sulfone and phosphine oxide; and n = 0-3, such that the valency of the group X is satisfied and, when n is greater than 1, R' are identical or different are used to control the mol. wt. and end-group functionality of polymers prep'd. by radical polymn. of unsatd. compds. Thus, 4 mL of a mixt. of 45 mL Me methacrylate and 49.5 mg AIBN contg. 17.4 mg

.alpha.-(tert-butylthiomethyl)styrene (I) was polymd. 1 h at 60.degree. in the absence of oxygen, giving 10.1% conversion and Mn 27,870, compared with 10.9 and 205,190, resp., without I.

ST vinyl compd chain transfer telomer prepn; methacrylate butylthiomethylstyrene telomer prepn; radical polymn low mol wt telomer

IT Molecular weight

(control of; vinyl compds. in radical polymn. for polymer mol. wt. control and end-group functionality)

IT Vinyl compounds, preparation

(polymers, prepn. of; vinyl compds. in radical polymn. for polymer mol. wt. control and end-group functionality)

IT Telomers (polymers)

(prepn. of; vinyl compds. in radical polymn. for polymer mol. wt. control and end-group functionality)

IT Polymerization

(radical; vinyl compds. in radical polymn. for polymer mol. wt. control and end-group functionality)

IT 118769-83-8P, .alpha.-(tert-Butylthiomethyl)styrene-methyl methacrylate telomer 118769-84-9P, .alpha.-(tert-Butylthiomethyl)styrene-styrene telomer 118769-85-0P, .alpha.-(tert-Butylthiomethyl)styrene-methyl acrylate telomer 118769-86-1P, .alpha.-(tert-Butylthiomethyl)styrene-vinyl acetate telomer 118769-87-2P, .alpha.-(n-Butylthiomethyl)styrene-methyl methacrylate telomer 118769-88-3P, .alpha.-(n-Butylthiomethyl)styrene-styrene telomer 118769-90-7P, .alpha.-(Carboxymethylthiomethyl)styrene-methyl methacrylate telomer 118769-91-8P, .alpha.-(Carboxymethylthiomethyl)styrene-styrene telomer 118769-93-0P, .alpha.-(Carboxyethylthiomethyl)styrene-styrene telomer 118769-94-1P, .alpha.-(Hydroxyethylthiomethyl)styrene-methyl methacrylate telomer 118769-95-2P, .alpha.-(Hydroxyethylthiomethyl)styrene-styrene telomer 118769-97-4P, .alpha.-(2-Aminoethylthiomethyl)styrene-methyl methacrylate telomer 118769-98-5P, .alpha.-(2-Aminoethylthiomethyl)styrene-styrene telomer 118770-00-6P, Styrene-.alpha.-[3-(trimethoxysilyl)propylthiomethyl]styrene telomer 118770-01-7P, .alpha.-(Bromomethyl)styrene-methyl methacrylate telomer 118770-02-8P, .alpha.-(Bromomethyl)styrene-styrene telomer

118770-03-9P, .alpha.-(Bromomethyl)styrene-methyl acrylate telomer  
 118770-04-0P, Ethyl .alpha.-(tert-butylthiomethyl)acrylate-methyl  
 methacrylate telomer 118770-05-1P, Ethyl .alpha.-(tert-  
 butylthiomethyl)acrylate-styrene telomer 118770-06-2P, Ethyl  
 .alpha.-(tert-butylthiomethyl)acrylate-methyl acrylate telomer  
 118770-07-3P, Ethyl .alpha.-(tert-butylthiomethyl)acrylate-vinyl  
 acetate telomer 118770-09-5P, Ethyl .alpha.-  
 (carboxymethylthiomethyl)acrylate-methyl methacrylate telomer  
 118770-10-8P, Ethyl .alpha.-(carboxymethylthiomethyl)acrylate-  
 styrene telomer 118770-12-0P, .alpha.-  
 (Carboxymethylthiomethyl)acrylic acid-methyl methacrylate telomer  
 118770-13-1P, .alpha.-(Carboxymethylthiomethyl)acrylic acid-styrene  
 telomer 118770-14-2P, .alpha.-(tert-Butylthiomethyl)acrylonitrile-  
 methyl methacrylate telomer 118770-15-3P, .alpha.-(tert-  
 Butylthiomethyl)acrylonitrile-styrene telomer 118770-16-4P,  
 .alpha.-(tert-Butylthiomethyl)acrylonitrile-methyl acrylate telomer  
 118770-17-5P, .alpha.-(tert-Butylthiomethyl)acrylonitrile-vinyl  
 acetate telomer 118770-18-6P, Ethyl .alpha.-(bromomethyl)acrylate-  
 methyl acrylate copolymer 118770-19-7P, .alpha.-  
 (Diethoxyphosphorylmethyl)styrene-methyl methacrylate telomer  
 118770-20-0P, Ethyl .alpha.-(trimethylsilylmethyl)acrylate-  
 methyl methacrylate telomer 118770-21-1P, Ethyl  
 .alpha.-(benzenesulfonylmethyl)acrylate-methyl methacrylate telomer  
 118770-22-2P, Ethyl .alpha.-(benzenesulfonylmethyl)acrylate-styrene  
 telomer 118770-24-4P 118770-26-6P, .alpha.-  
 (Benzenesulfonylmethyl)vinyl acetate-methyl methacrylate telomer  
 118770-27-7P, .alpha.-(Benzenesulfonylmethyl)vinyl acetate-styrene  
 telomer 118770-28-8P, .alpha.-(Benzenesulfonylmethyl)vinyl  
 acetate-methyl acrylate telomer 118770-29-9P, .alpha.-  
 (Benzenesulfonylmethyl)vinyl acetate-vinyl acetate telomer  
 118770-30-2P, .alpha.-(Bromomethyl)acrylonitrile-methyl methacrylate  
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 acrylate telomer 118770-32-4P, .alpha.-(Chloromethyl)acrylonitrile-  
 methyl acrylate telomer 118770-33-5P, Acrylonitrile-.alpha.-(tert-  
 butylthiomethyl)acrylonitrile telomer 118770-34-6P,  
 Acrylonitrile-.alpha.-(tert-butylthiomethyl)styrene telomer  
 118804-58-3P, Ethyl .alpha.-(bromomethyl)acrylate-methyl  
 methacrylate copolymer 118804-59-4P, Ethyl .alpha.-(tri-n-  
 butylstannylmethyl)acrylate-methyl methacrylate telomer

(prepn. of; vinyl compds. in radical polymn. for polymer mol. wt.  
 control and end-group functionality)

IT 118770-20-0P, Ethyl .alpha.-(trimethylsilylmethyl)acrylate-  
 methyl methacrylate telomer

(prepn. of; vinyl compds. in radical polymn. for polymer mol. wt.  
 control and end-group functionality)

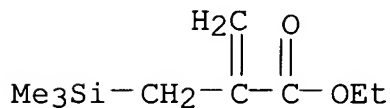
RN 118770-20-0 ZCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, telomer with ethyl  
 2-[(trimethylsilyl)methyl]-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 74976-84-4

CMF C9 H18 O2 Si



CM 2

CRN 9011-14-7

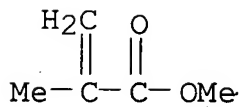
CMF (C5 H8 O2)x

CCI PMS

CM 3

CRN 80-62-6

CMF C5 H8 O2



L20 ANSWER 3 OF 4 ZCAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:76295 ZCAPLUS

DN 110:76295

ED Entered STN: 04 Mar 1989

TI Control of molecular weight and end group functionality of polymers

IN Rizzardo, Ezio; Meijs, Gordon Francis; Thang, San Hoa

PA Commonwealth Scientific and Industrial Research Organization,  
Australia

SO PCT Int. Appl., 95 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08F002-38

ICS C07C149-267; C07C149-273; C07C147-14; C07C149-20; C07C121-30;  
C07C069-92; C07C149-415; C07C043-176; C07C121-75; C07C043-178;  
C07C093-00; C07C043-215; C07C069-157; C07C069-16; C07C121-38;  
C07C069-708; C07C103-175; C07F007-18; C07F009-40

CC 35-4 (Chemistry of Synthetic High Polymers)

FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8804304	A1	19880616	WO 1987-AU412	19871204
W: AU, JP, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8783396	A1	19880630	AU 1987-83396	19871204
AU 605534	B2	19910117		
EP 333758	A1	19890927	EP 1988-900006	19871204
EP 333758	B1	19951102		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 02501486	T2	19900524	JP 1988-500339	19871204
AT 129719	E	19951115	AT 1988-900006	19871204
US 5874511	A	19990223	US 1996-671821	19960624
PRAI AU 1986-9351	A	19861205		
AU 1987-3813	A	19870819		
WO 1987-AU412	A	19871204		
US 1989-372357	B1	19890605		
US 1991-731393	B1	19910717		
US 1993-72687	A3	19930607		
US 1994-325496	B1	19941019		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 8804304	ICM	C08F002-38
	ICS	C07C149-267; C07C149-273; C07C147-14; C07C149-20; C07C121-30; C07C069-92; C07C149-415; C07C043-176; C07C121-75; C07C043-178; C07C093-00; C07C043-215; C07C069-157; C07C069-16; C07C121-38; C07C069-708; C07C103-175; C07F007-18; C07F009-40
US 5874511	ECLA	C07C043/176; C07C043/178P; C07C043/215B; C07C093/00; C07C121/00H3C; C07C121/38; C07C121/75B3; C07C149/20+4; C07C149/237+4; C07C149/267+6; C07C323/25D2; C07F007/18C4D4C;

C07F009/40A; C08F246/00

- AB CH<sub>2</sub>:CR<sub>1</sub>Y [R<sub>1</sub> = H or a group capable of activating the vinyl group towards free radical addn.; Y = CH<sub>2</sub>XR<sub>2</sub><sub>n</sub> or OR<sub>2</sub>; R<sub>2</sub> = (substituted) alkyl, (substituted) alkenyl, (substituted) alkynyl, or carbo- or heterocyclic ring, X = element other than C from Group IV, V, VI, or VII or Group IV, V, or VI to which is attached .gtoreq.1 O, n = 0-3] are useful in controlling mol. wt. and end-group functionality in free-radical polymn. Thus, 4 mL of a soln. prep'd. from 25 mL Me methacrylate and 49.5 mg AIBN was polym'd. 1 h at 60.degree. in the presence of 9.0, 17.4, 31.4, and 61.6 mg .alpha.-(tert-butylthiomethyl)styrene [I, prep'd. by reaction of .alpha.-(bromomethyl)styrene with Me<sub>3</sub>CSH] to give polymer samples with no.-av. mol. wts. 46,071, 27,870, 16,795, and 9600, resp., at conversions 10.4, 10.1, 9.4, and 8.6, resp., compared with 205,190 and 10.9%, resp., in the absence of I.
- ST chain transfer agent radical polymn; methacrylate polymn chain transfer agent; tertiary butylthiomethyl styrene chain transfer agent; styrene deriv chain transfer agent; thiomethylstyrene deriv chain transfer agent
- IT Chain-transfer agents  
(unsatd. compds., for radical polymn.)
- IT 92822-43-0  
(chain-transfer agents, for radical polymn.)
- IT 118992-91-9  
(dehydrobromination of)
- IT 118992-89-5P  
(manuf. and reaction with (tert-butyldimethylsilyloxymethyl)styrene)
- |    |              |              |              |                     |
|----|--------------|--------------|--------------|---------------------|
| IT | 118729-72-9P | 118729-74-1P | 118729-75-2P | 118729-77-4P        |
|    | 118769-83-8P | 118769-84-9P | 118769-85-0P | 118769-86-1P        |
|    | 118769-87-2P | 118769-88-3P | 118769-90-7P | 118769-91-8P        |
|    | 118769-93-0P | 118769-94-1P | 118769-95-2P | 118769-97-4P        |
|    | 118769-98-5P | 118770-00-6P | 118770-01-7P | 118770-02-8P        |
|    | 118770-03-9P | 118770-04-0P | 118770-05-1P | 118770-06-2P        |
|    | 118770-07-3P | 118770-09-5P | 118770-10-8P | 118770-12-0P        |
|    | 118770-13-1P | 118770-14-2P | 118770-15-3P | 118770-16-4P        |
|    | 118770-17-5P | 118770-18-6P | 118770-19-7P | <b>118770-20-0P</b> |
|    | 118770-21-1P | 118770-22-2P | 118770-24-4P | 118770-26-6P        |
|    | 118770-27-7P | 118770-28-8P | 118770-29-9P | 118770-30-2P        |
|    | 118770-31-3P | 118770-32-4P | 118770-33-5P | 118770-34-6P        |
|    | 118770-35-7P | 118770-36-8P | 118770-37-9P | 118770-38-0P        |
|    | 118770-40-4P | 118770-41-5P | 118770-42-6P | 118770-43-7P        |
|    | 118770-45-9P | 118770-46-0P | 118770-47-1P | 118770-48-2P        |
|    | 118770-50-6P | 118770-51-7P | 118770-52-8P | 118770-53-9P        |
|    | 118770-54-0P | 118770-55-1P | 118770-57-3P | 118770-58-4P        |
|    | 118770-60-8P | 118770-61-9P | 118770-62-0P | 118770-63-1P        |
|    | 118770-65-3P | 118770-66-4P | 118770-68-6P | 118770-69-7P        |
|    | 118770-71-1P | 118770-73-3P | 118770-75-5P | 118770-77-7P        |

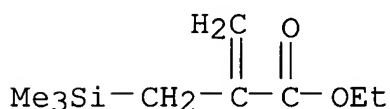


118770-79-9P 118770-81-3P 118770-82-4P 118770-84-6P  
 118770-86-8P 118770-88-0P 118770-89-1P 118770-91-5P  
 118770-93-7P 118770-94-8P 118770-96-0P 118770-98-2P  
 118771-00-9P 118804-58-3P 118804-59-4P 118804-60-7P  
 118858-07-4P  
 (manuf. of oligomeric)  
 IT 25150-08-7P 25186-51-0P 51876-00-7P 51876-03-0P 60154-85-0P  
 116233-34-2P 116233-35-3P 118729-71-8P 118729-73-0P  
 118769-89-4P 118769-92-9P 118769-96-3P 118769-99-6P  
 118770-08-4P 118770-11-9P 118770-23-3P 118770-39-1P  
 118770-44-8P 118770-49-3P 118770-56-2P 118770-59-5P  
 118770-64-2P 118770-67-5P 118770-70-0P 118770-72-2P  
 118770-74-4P 118770-76-6P 118770-78-8P 118770-80-2P  
 118770-83-5P 118770-85-7P 118770-87-9P 118770-90-4P  
 118770-92-6P 118770-95-9P 118770-97-1P 118770-99-3P  
 118992-87-3P 118992-88-4P  
 (manuf. of, for chain-transfer agents for radical polymn.)  
 IT 60-23-1, 2-Aminoethyl mercaptan 107-96-0 109-79-5, Butyl  
 mercaptan 122-52-1, Triethyl phosphite  
 (reaction of, with (bromomethyl)styrene)  
 IT 75-66-1, tert-Butyl mercaptan  
 (reaction of, with (bromomethyl)styrene or  
 (bromomethyl)acrylonitrile)  
 IT 100-51-6, Benzyl alcohol, reactions  
 (reaction of, with (chloromethyl)styrene)  
 IT 18162-48-6, tert-Butyldimethylsilyl chloride  
 (reaction of, with (hydroxymethyl)styrene)  
 IT 100-42-5, reactions  
 (reaction of, with Me (hydroxymethyl)benzoate or cyanobenzyl  
 alc.)  
 IT 1592-20-7, 4-(Chloromethyl)styrene 39833-65-3,  
 3-(Chloromethyl)styrene  
 (reaction of, with benzyl alc.)  
 IT 68-11-1, reactions  
 (reaction of, with bromo compds.)  
 IT 3360-54-1, .alpha.-(Bromomethyl)styrene  
 (reaction of, with mercapto compds.)  
 IT 118992-90-8  
 (reaction of, with methanol)  
 IT 874-89-5, 4-Cyanobenzyl alcohol 6908-41-4, Methyl  
 4-(hydroxymethyl)benzoate  
 (reaction of, with styrene)  
 IT 58539-11-0  
 (reaction of, with thioglycolic acid)  
 IT 17200-53-2  
 (reaction of, with tert-Bu mercaptan)  
 IT 118770-20-0P  
 (manuf. of oligomeric)

RN 118770-20-0 ZCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, methyl ester, telomer with ethyl  
 2-[(trimethylsilyl)methyl]-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 74976-84-4  
 CMF C9 H18 O2 Si

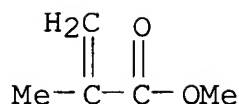


CM 2


CRN 9011-14-7  
 CMF (C5 H8 O2)x  
 CCI PMS

CM 3

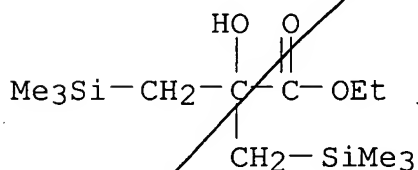
CRN 80-62-6  
 CMF C5 H8 O2



L20 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1986:88654 ZCAPLUS  
 DN 104:88654  
 ED Entered STN: 22 Mar 1986  
 TI A simple synthesis of (2-ethoxycarbonylallyl)trimethylsilane, a  
 potential synthon for the synthesis of 2-methylene-4-alkanolides  
 AU Haider, Akhtar  
 CS Inst. Chim. Org., Univ. Lausanne, Lausanne, CH-1005, Switz.  
 SO Synthesis (1985), (3), 271-2  
 CODEN: SYNTBF; ISSN: 0039-7881  
 DT Journal  
 LA English  
 CC 29-6 (Organometallic and Organometalloidal Compounds)  
 OS CASREACT 104:88654

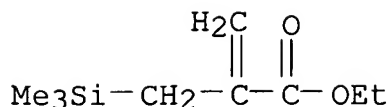


AB Grignard reaction of  $\text{Me}_3\text{SiCH}_2\text{MgCl}$  with  $\text{EtO}_2\text{CCOCl}$  gave 53%  
 $\text{Me}_3\text{SiCH}_2\text{C}(:\text{CH}_2)\text{CO}_2\text{Et}$ .  
 ST silane ethoxycarbonylallyl; Grignard ethoxalyl chloride silylmethyl  
 chloride  
 IT 2344-80-1  
 (Grignard reaction of, with ethoxalyl chloride)  
 IT 4755-77-5  
 (Grignard reaction of, with trimethylsilylmethyl chloride)  
 IT 100548-24-1P  
 (prepn. and elimination reactions of)  
 IT 74976-84-4P  
 (prepn. and spectra of)  
 IT 13170-43-9  
 (reaction of, with ethoxyalyl chloride)  
 IT 100548-24-1P  
 (prepn. and elimination reactions of)  
 RN 100548-24-1 ZCAPLUS  
 CN Propanoic acid, 2-hydroxy-3-(trimethylsilyl)-2-  
 [(trimethylsilyl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



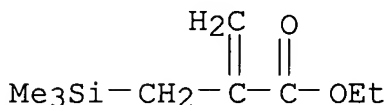
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L21 ANSWER 1 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 2002:255783 Document No. 137:278737 Amination of .alpha.,.beta.-  
 unsaturated (2-trimethylsilanylmethyl) carboxylic esters. Gasperi,  
 Tecla; Antonietta Loreto, M.; Tardella, Paolo A.; Gambacorta,  
 Augusto (Dipartimento di Chimica, Universita 'La Sapienza', Rome,  
 I-00185, Italy). Tetrahedron Letters, 43(16), 3017-3020 (English)  
 2002. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT  
 137:278737. Publisher: Elsevier Science Ltd..  
 IT 74976-84-4  
 (amination of .alpha.,.beta.-unsatd. (trimethylsilanylmethyl)  
 carboxylic esters)  
 RN 74976-84-4 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



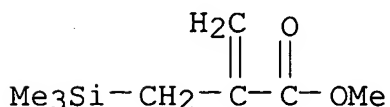
L21 ANSWER 2 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 2002:124477 Document No. 137:20143 One-pot, three-component synthesis of open-chain, polyfunctional sulfones. Bouchez, Laure; Vogel, Pierre (Institut de chimie moleculaire et biologique de l'Ecole Polytechnique Federle de Lausanne, Switz.). Synthesis (2), 225-231 (English) 2002. CODEN: SYNTBF. ISSN: 0039-7881. OTHER SOURCES: CASREACT 137:20143. Publisher: Georg Thieme Verlag.

IT **74976-84-4**  
 (one-pot, three-component synthesis of open-chain, polyfunctional sulfones)  
 RN 74976-84-4 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 3 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 2001:920326 Document No. 136:232338 Effective syntheses of 2-trimethylsilylmethyl-3-trimethylsilyl-1-propene and its 1,1-d2- and 1,1,1',1',3,3-d6-isotopomers. Hu, Jun; Squires, Robert R. (Department of Chemistry, Purdue University, West Lafayette, IN, 47907, USA). Journal of Labelled Compounds & Radiopharmaceuticals, 44(14), 987-992 (English) 2001. CODEN: JLCRD4. ISSN: 0362-4803. OTHER SOURCES: CASREACT 136:232338. Publisher: John Wiley & Sons Ltd..

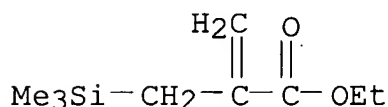
IT **78310-52-8P**  
 (prepn. and redn. with lithium aluminum deuteride)  
 RN 78310-52-8 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, methyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 4 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 2000:431276 Document No. 133:164114 Pummerer-type .alpha.-functionalization of arylselenenyl acetates by treating with trimethylsilyl- or tri-n-butylstannyl-masked nucleophiles and trifluoroacetic anhydride or a Lewis acid. Shimada, Kazuaki; Kikuta, Yutaka; Koganebuchi, Hiroyuki; Yonezawa, Fumi; Aoyagi, Shigenobu; Takikawa, Yuji (Department of Applied Chemistry and Molecular Science, Faculty of Engineering, Iwate University, Iwate, 020-8551, Japan). Tetrahedron Letters, 41(23), 4637-4640 (English) 2000. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 133:164114. Publisher: Elsevier Science Ltd..

IT **74976-84-4**, [2-(Ethoxycarbonyl)allyl]trimethylsilane  
 (Pummerer-type alpha-functionalization of arylselenenyl acetates by treating with trimethylsilyl- or tributylstannyl-masked nucleophiles and trifluoroacetic anhydride or Lewis acid)

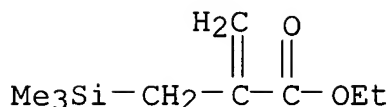
RN 74976-84-4 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 5 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 2000:124080 Document No. 133:17350 Stereochemistry of .alpha.-alkyl-.alpha.,.gamma.-dichloro-.gamma.-lactams. Iwamatsu, Shoichi; Matsubara, Kouki; Kondo, Hideo; Nagashima, Hideo (Grad. Sch. of Eng. Sci., and Inst. of Adv. Mater. Stud., Kyushu Univ., Japan). Kyushu Daigaku Chuo Bunseki Senta Hokoku, Volume Date 1999, 17, 13-20 (Japanese) 2000. CODEN: KDCHEW. ISSN: 0916-0892. OTHER SOURCES: CASREACT 133:17350. Publisher: Kyushu Daigaku Chuo Bunseki Senta.

IT **74976-84-4**  
 (prepn. of .alpha.-alkyl-.alpha.,.gamma.-dichloro-.gamma.-lactams by addn. reactions of 3,3-dichloro-4-(chloromethyl)pyrrolidin-2-one derivs. with olefins)

RN 74976-84-4 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



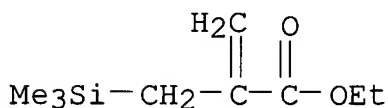
L21 ANSWER 6 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1999:487121 Document No. 131:144983 Free-radical chain transfer  
 polymerization process. Rizzardo, Ezio; Meijs, Gordon Francis;  
 Thang, San Hoa (Commonwealth Scientific and Industrial Research  
 Organisation, Australia). U.S. US 5932675 A 19990803, 23 pp.  
 (English). CODEN: USXXAM. APPLICATION: US 1997-823299 19970321.  
 PRIORITY: US 1989-372357 19890605; US 1991-731393 19910717; US  
 1993-72687 19930607; US 1994-325496 19941019; US 1995-478515  
 19950607.

IT 74976-84-4P

(chain-transfer agent; for mol. wt. control in free-radical  
 polymn. of vinyl compds.)

RN 74976-84-4 ZCAPLUS

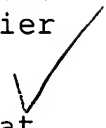
CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 7 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1999:118488 Document No. 130:252209 Copper-catalyzed facile  
 carbon-carbon bond forming reactions at the .alpha.-position of  
 .alpha.,.alpha.,.gamma.-trichlorinated .gamma.-lactams. Iwamatsu,  
 Sho-Ichi; Kondo, Hideo; Matsubara, Kouki; Nagashima, Hideo  
 (Department of Molecular Science and Technology, Graduate School of  
 Engineering Sciences, Kyushu University, Fukuoka, 816-8580, Japan).  
 Tetrahedron, 55(6), 1687-1706 (English) 1999. CODEN: TETRAB. ISSN:  
 0040-4020. OTHER SOURCES: CASREACT 130:252209. Publisher: Elsevier  
 Science Ltd..

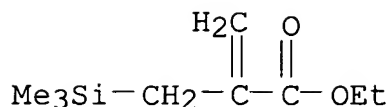
IT 74976-84-4

(copper-catalyzed facile carbon-carbon bond forming reactions at  
 the .alpha.-position of .alpha.,.alpha.,.gamma.-trichlorinated  
 .gamma.-lactams)



RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)

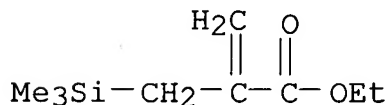


L21 ANSWER 8 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1997:41864 Document No. 126:60291 Saccharopeptides and derivatives thereof. Fugedi, Peter; Peto, Csaba F.; Holme, Kevin R.; Wang, Li (Glycomed Incorporated, USA). PCT Int. Appl. WO 9635700 A1 19961114, 198 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, NL, PT, SE. (English). CODEN: PIXXD2. APPLICATION: WO 1996-US6731 19960510. PRIORITY: US 1995-438669 19950510.

IT 74976-84-4, 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester  
 (prepn. of saccharopeptides and their derivs.)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)

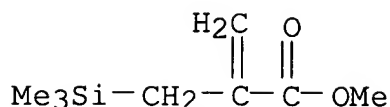


L21 ANSWER 9 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1997:12055 Document No. 126:117805 A new access to racemic carbacephems. Oumoch, Said; Rousseau, Gerard (Lab. des carbocycles, URA CNRS, Orsay, 91405, Fr.). Bulletin de la Societe Chimique de France, 133(10), 997-1003 (English) 1996. CODEN: BSCFAS. ISSN: 0037-8968. OTHER SOURCES: CASREACT 126:117805. Publisher: Elsevier.

IT 78310-52-8  
 (prepn. of racemic carbacephems via Lewis acid catalyzed cycloaddn. of 4-allyl-2-azetidinones)

RN 78310-52-8 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, methyl ester (9CI)  
 (CA INDEX NAME)



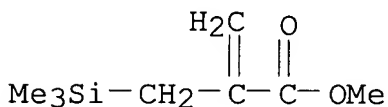
L21 ANSWER 10 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1991:632343 Document No. 115:232343 Synthesis of functionalized allylsilanes via palladium-catalyzed cross-coupling of 2-stannyl-3-silylpropene with organic halides. Kang, Kyung Tae; Kim, Soung Sin; Lee, Jae Chul (Dep. Chem. Educ., Pusan Natl. Univ., Pusan, 609-735, S. Korea). Tetrahedron Letters, 32(34), 4341-4 (English) 1991. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 115:232343.

IT **78310-52-8P**

(prepn. of)

RN 78310-52-8 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, methyl ester (9CI)  
 (CA INDEX NAME)



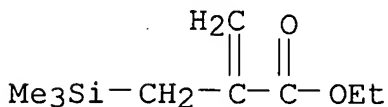
L21 ANSWER 11 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1991:143865 Document No. 114:143865 Chain elongation of aldonolactones. Csuk, Rene; Glaenger, Brigitte I. (Pharm.-Chem. Inst., Univ. Heidelberg, Heidelberg, D-6900, Germany). Journal of Carbohydrate Chemistry, 9(6), 809-22 (English) 1990. CODEN: JCACDM. ISSN: 0732-8303. OTHER SOURCES: CASREACT 114:143865.

IT **74976-84-4**

(homologation by, of aldonolactones)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 12 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN



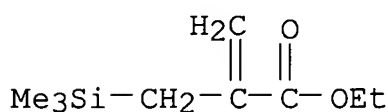
1991:82601 Document No. 114:82601 Chain transfer activity of some activated allylic compounds. Meijs, Gordon F.; Rizzardo, Ezio; Thang, San H. (Div. Chem. Polym., CSIRO, Clayton, 3168, Australia). Polymer Bulletin (Berlin, Germany), 24(5), 501-5 (English) 1990. CODEN: POBUDR. ISSN: 0170-0839.

IT 74976-84-4

(chain-transfer agents, for Me methacrylate polymn.)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
(CA INDEX NAME)



L21 ANSWER 13 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN

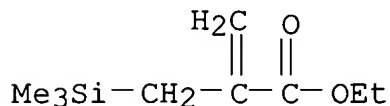
1990:118928 Document No. 112:118928 The cerium(III)-mediated reaction of (trimethylsilyl)methylmagnesium chloride with esters and lactones: the efficient synthesis of some functionalized allylsilanes of use in annulation reactions. Lee, Thomas V.; Channon, Julia A.; Clegg, Carmel; Porter, John R.; Roden, Frances S.; Yeoh, Helena T. L. (Sch. Chem., Univ. Bristol, Bristol, BS8 1TS, UK). Tetrahedron, 45(18), 5877-86 (English) 1989. CODEN: TETRAB. ISSN: 0040-4020. OTHER SOURCES: CASREACT 112:118928.

IT 74976-84-4P

(prepn. of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
(CA INDEX NAME)



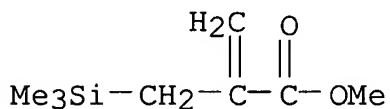
L21 ANSWER 14 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN

1990:97997 Document No. 112:97997 Fluoride-ion-induced allylation of activated alkenes. Pernez, Stephane; Hamelin, Jack (Groupe Rech. Physicochim. Struct. 3, Univ. Rennes I, Rennes, 35042, Fr.). Tetrahedron Letters, 30(26), 3419-22 (English) 1989. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 112:97997.

IT 78310-52-8

(attempted reaction of, with aldehydes)

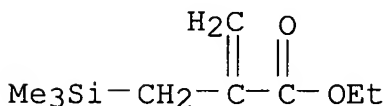
RN 78310-52-8 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, methyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 15 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1989:497538 Document No. 111:97538 Nucleophilic organosilicon intermediates turned electrophilic: (Trimethylsilyl)methyl, trimethylsiloxy and also 2-tetrahydropyranyloxy as terminators of cycloadditions of allyl cations. A short route to dehydrozizaenes (6-methylenetricyclo[6.2.1.0<sup>1,5</sup>]undec-9,10-enes) and related tricycles and [3.2.1]-bicycles. Hoffmann, H. M. R.; Eggert, Ulrike; Gibbels, Uwe; Giesel, Kunibert; Koch, Oskar; Lies, Reinhard; Rabe, Juergen (Dep. Org. Chem., Univ. Hannover, Hannover, D-3000, Fed. Rep. Ger.). Tetrahedron, 44(13), 3899-918 (English) 1988. CODEN: TETRAB. ISSN: 0040-4020. OTHER SOURCES: CASREACT 111:97538.

IT **74976-84-4**  
 (reaction of, with bis-Grignards)

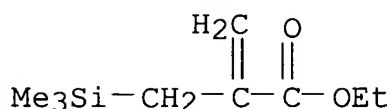
RN 74976-84-4 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



L21 ANSWER 16 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1989:94110 Document No. 110:94110 Reactivity of the organozinc derivative of ethyl .alpha.-(bromomethyl)acrylate. El Alami, N.; Belaud, C.; Villieras, J. (Lab. Synth. Org. Select. Mater., Fac. Sci. Tech., Nantes, F-44072, Fr.). Journal of Organometallic Chemistry, 353(2), 157-68 (French) 1988. CODEN: JORCAI. ISSN: 0022-328X. OTHER SOURCES: CASREACT 110:94110.

IT **74976-84-4P**  
 (prepn. of)

RN 74976-84-4 ZCAPLUS  
 CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



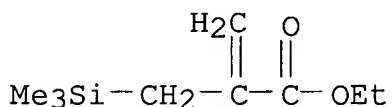
L21 ANSWER 17 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1989:23313 Document No. 110:23313 High yield synthesis of  
 .alpha.-propargylic acrylic ester: a general access to  
 .alpha.-substituted acrylic esters. Queignec, Rene; Kirschleger,  
 Bernard; Lambert, Francois; Aboutaj, Mohammed (CNRS, Fac. Sci.,  
 Nantes, F-44072, Fr.). Synthetic Communications, 18(11), 1213-23  
 (English) 1988. CODEN: SYNCAV. ISSN: 0039-7911. OTHER SOURCES:  
 CASREACT 110:23313.

IT 74976-84-4P

(prepn. of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



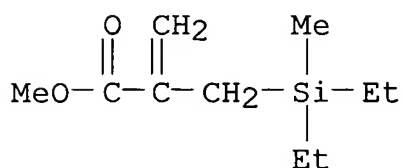
L21 ANSWER 18 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1987:598454 Document No. 107:198454 The catalyzed reaction of  
 .alpha.,.beta.-unsaturated esters with various hydrosilanes.  
 Takeshita, Kenji; Seki, Yoshio; Kawamoto, Kazuaki; Murai, Shinji;  
 Sonoda, Noboru (Fac. Econ., Kagawa Univ., Takamatsu, 760, Japan).  
 Journal of Organic Chemistry, 52(22), 4864-8 (English) 1987. CODEN:  
 JOCEAH. ISSN: 0022-3263. OTHER SOURCES: CASREACT 107:198454.

IT 110434-22-5P

(prepn. and spectra of)

RN 110434-22-5 ZCAPLUS

CN 2-Propenoic acid, 2-[(diethylmethylsilyl)methyl]-, methyl ester  
 (9CI) (CA INDEX NAME)



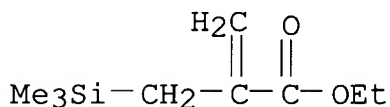
L21 ANSWER 19 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1987:554393 Document No. 107:154393 Heterogeneous mediated alkylation of ethyl diethylphosphonoacetate. A one pot access to .alpha.-alkylated acrylic esters. Kirschleger, Bernard; Queignec, Rene (Fac. Sci., Nantes, F-44072, Fr.). Synthesis (11), 926-8 (English) 1986. CODEN: SYNTBF. ISSN: 0039-7881. OTHER SOURCES: CASREACT 107:154393.

IT 74976-84-4P

(prepn. and spectra of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



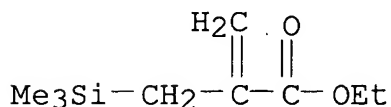
L21 ANSWER 20 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1987:423193 Document No. 107:23193 Isolation of the Reformatskii reagent from ethyl .alpha.-(bromomethyl)acrylate. Alami, N. E.; Belaud, C.; Villieras, J. (Lab. Synth. Org. Select., Fac. Sci., Nantes, F 44072, Fr.). Tetrahedron Letters, 28(1), 59-60 (French) 1987. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 107:23193.

IT 74976-84-4P

(prepn. of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)



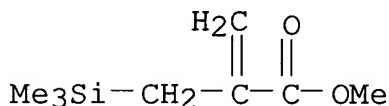
L21 ANSWER 21 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1984:121391 Document No. 100:121391 Total synthesis of (.+.-)-aphidicolin and (.+.-)-.beta.-chamigrene. Ireland, Robert E.; Dow, William C.; Godfrey, Jollie D.; Thaisrivongs, Suvit (Chem. Lab., California Inst. Technol., Pasadena, CA, 91125, USA). Journal of Organic Chemistry, 49(6), 1001-13 (English) 1984. CODEN: JOCEAH.

ISSN: 0022-3263.

IT 78310-52-8P

(prepn. and reaction with methylenebenzocycloheptenone deriv.)

RN 78310-52-8 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, methyl ester (9CI)  
(CA INDEX NAME)

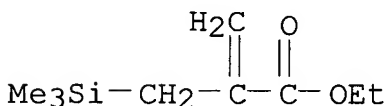
L21 ANSWER 22 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN

1983:159956 Document No. 98:159956 Palladium-mediated cycloaddition approach to cyclopentanoids. Mechanistic studies. Trost, Barry M.; Chan, Dominic M. T. (Dep. Chem., Univ. Wisconsin, Madison, WI, 53706, USA). Journal of the American Chemical Society, 105(8), 2326-35 (English) 1983. CODEN: JACSAT. ISSN: 0002-7863. OTHER SOURCES: CASREACT 98:159956.

IT 74976-84-4P

(prepn. and reductive deuteration of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
(CA INDEX NAME)

L21 ANSWER 23 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN

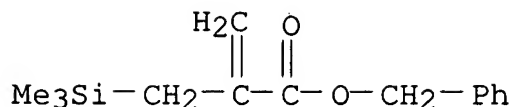
1982:562257 Document No. 97:162257 Cycloelimination of .beta.-silylethyl sulfoxides: alkene, alkyne, and vinylsilane-forming reactions. Fleming, Ian; Goldhill, Jon; Perry, David A. (Chem. Lab., Univ. Cambridge, Cambridge, CB2 1EW, UK). Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (7), 1563-9 (English) 1982. CODEN: JCPRB4. ISSN: 0300-922X.

IT 83182-28-9P

(prepn. of)

RN 83182-28-9 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

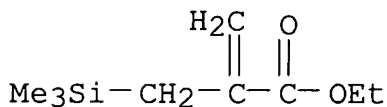


L21 ANSWER 24 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1982:545025 Document No. 97:145025 Cycloadditions of allyl cations.  
 Part 30. A novel approach to complex terpenoid  
 methylenecyclohexanes. Henning, Rolf; Hoffmann, H. M. R. (Dep.  
 Chem., Univ. Hannover, Hannover, D-3000, Fed. Rep. Ger.).  
 Tetrahedron Letters, 23(22), 2305-8 (English) 1982. CODEN: TELEAY.  
 ISSN: 0040-4039. OTHER SOURCES: CASREACT 97:145025.

IT **74976-84-4P**  
 (prepn. and methylation of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
 (CA INDEX NAME)

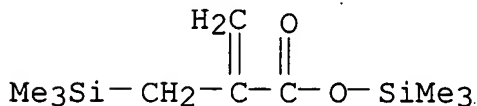


L21 ANSWER 25 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1982:35532 Document No. 96:35532 Allylcarboxylic acid derivatives.  
 (Sakurai, Hideki, Japan). Jpn. Kokai Tokkyo Koho JP 56110693 A2  
 19810901 Showa, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP  
 1980-14170 19800207.

IT **56407-78-4P**  
 (prepn. of)

RN 56407-78-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, trimethylsilyl ester  
 (9CI) (CA INDEX NAME)



L21 ANSWER 26 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
 1981:462442 Document No. 95:62442 Efficient, stereoselective total  
 synthesis of (.+-.)-aphidicolin. Ireland, Robert E.; Godfrey,

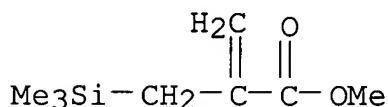
Jollie D.; Thaisrivongs, Suvit (Chem. Lab., California Inst. Technol., Pasadena, CA, 91125, USA). Journal of the American Chemical Society, 103(9), 2446-8 (English) 1981. CODEN: JACSAT. ISSN: 0002-7863.

IT 78310-52-8P

(prepn. and Diels-Alder reaction of, with methylenebenzocycloheptenone deriv.)

RN 78310-52-8 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, methyl ester (9CI)  
(CA INDEX NAME)



L21 ANSWER 27 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN

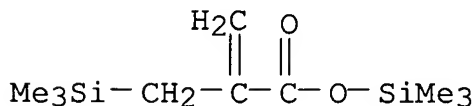
1980:604013 Document No. 93:204013 Chemistry of organosilicon compounds. 134. (2-Alkoxy carbonylallyl)trimethylsilanes as new reagents of 2-alkoxy carbonylallylation of electrophiles. Hosomi, Akira; Hashimoto, Hidehiko; Sakurai, Hideki (Dep. Chem., Tohoku Univ., Sendai, 980, Japan). Tetrahedron Letters, 21(10), 951-4 (English) 1980. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 93:204013.

IT 56407-78-4P

(prepn. and reaction of, with acetals)

RN 56407-78-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L21 ANSWER 28 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN

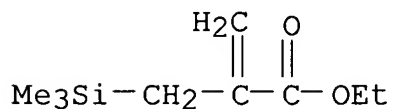
1980:568400 Document No. 93:168400 Nature of a trimethylenemethane-palladium complex. Trost, Barry M.; Chan, Dominic M. T. (Dep. Chem., Univ. Wisconsin, Madison, WI, 53706, USA). Journal of the American Chemical Society, 102(20), 6359-61 (English) 1980. CODEN: JACSAT. ISSN: 0002-7863.

IT 74976-84-4

(redn. of)

RN 74976-84-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, ethyl ester (9CI)  
(CA INDEX NAME)



L21 ANSWER 29 OF 29 ZCAPLUS COPYRIGHT 2005 ACS on STN  
1975:478500 Document No. 83:78500 Flash thermolysis of silyl esters of  
malonic acid. New route to ketenes. Thermal rearrangements of  
trimethylsilyl diester of cyclopropane-1,1-dicarboxylic acid.  
Bloch, R.; Denis, J. M. (Lab. Carbocycles, Univ. Paris-Sud, Orsay,  
Fr.). Journal of Organometallic Chemistry, 90(1), C9-C12 (French)  
1975. CODEN: JORCAI. ISSN: 0022-328X.

IT **56407-78-4P**

(prepn. of)

RN 56407-78-4 ZCAPLUS

CN 2-Propenoic acid, 2-[(trimethylsilyl)methyl]-, trimethylsilyl ester  
(9CI) (CA INDEX NAME)

